OCCUPATIONAL INJURY AND ILLNESS PREVENTION PROGRAM

1999 Annual Report

BRITISH COLUMBIA

Province of British Columbia
Ministry of Environment, Lands and Parks

BC Parks

Parks and Ecological Reserves
Management Branch

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EXECUTIVE SUMMARY

The recording, reporting, and interpreting of employee safety records and information provided in this annual Occupational Illness and Prevention report is an important management tool for BC Parks. It meets the legal requirements set down by the Workers' Compensation Board and policy established by BC Parks. As well, it can assist staff through their local Health and Safety Joint Committees in identifying actions which can be taken to prevent and reduce employee injuries.

During 1999 significant changes were once again made to the Workers Compensation Act and the Occupational Health and Safety Regulations. As a result updates have been made to BC Parks Occupational Injury and Illness Prevention Manual. BC Parks has placed the OIIP Manual and the OIIP Annual Reports on BC Parks intra-net site (http://iwww.elp.gov.bc.ca/bcparks/). These changes will, hopefully, provide staff with quicker access to needed information and materials.

Reports of accidents to employees in the BC Parks Division of the Ministry of Environment Lands and Parks have been placed into the following sections for evaluation.

Section One: Volume of Accidents

Thirty-six (36) accidents were reported in 1999, up from twenty-four (24) accidents reported in 1998. Of the total number of accidents reported, five (5) were time loss accidents (down from six (6) in 1998), accounting for 13.8% of all accidents reported in 1999.

Section Two: Accidents by Employee Classification

Thirty-two (32) out of the thirty-six reported accidents were reported by Park Assistants and S.T.O.'s who continue to lead all employee classifications in accidents reported. Of the five time loss accidents reported for park employees, four (4) were reported by Park Assistants and S.T.O.'s during 1999. The time loss for this group represented 80% of all time lost due to accidents and 97% of the 333 employees days lost.

Section Three: Accidents by Area of Injury

In 1999 back injuries resulting from lifting, slips and falls **was not the leading area** of injury. This is the first time since 1992 that back injuries were not the primary cause of accidents to staff.

During 1999, injuries to the hand and fingers accounted for eight (8) of the thirty-six accidents followed by seven (7) injuries to the leg, knee, or hip. These areas accounted for forty-two percent (42%) of all the injury accidents and ninety-seven percent (97%) of all the employee days lost. The remaining 58% of injuries were evenly distributed to all other areas of the body.

Section Four: Accidents by Length of Employment

Employees with **OVER 5 YEARS** service accounted for 12 of the 36 accidents (recorded in **1999**, 3 of the time loss accidents, and 99% or 331 of the time lost days.

Employees with **MORE THAN 1 YEAR SERVICE and LESS THAN 5 YEARS** accounted for 7 of the 36 accidents with no time loss accidents.

Employees with **LESS THAN 1 YEAR** accounted for four (4) accidents with no time loss.

The above indicates that in particular, both long and medium term employees must exercise more care and diligence before undertaking tasks. Supervisors are to ensure that ALL STAFF receive clear direction and necessary training prior to starting any task.

Section Five: Accident Severity Rate

This section has been revised and now shows a five year comparison on a district by district basis of **all Employee Accidents including** time loss claims and total days lost.

Table eight illustrates this year's, as well as the past five years', Accident Frequency Rate (AFR). This table totals all reported accidents for each district (see table five) and then multiplies this number (five year average and year to date) by a weighted average of hours worked.

Those Districts with the largest number of accidents, injuries and time loss days are those with the highest scores. The 1998 **yearly A.F.R.** ranked Strathcona (1), South Vancouver Island (2) and Lower Mainland District (3). While the **1999 yearly A.F.R.**

ranked Garibaldi/Sunshine (1), Prince George (2) and Lower Mainland (3). For 1998, the districts with the three highest **five year A.F.R.** were: Strathcona (1), Garibaldi/Sunshine (2) and South Vancouver Island (3) . The districts with the highest **five year A.F.R.** were: Garibaldi/Sunshine (1), Strathcona (2) and South Vancouver Island (3).

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VOLUME OF ACCIDENTS

Table 1 Accidents, Time Loss Accidents and Employee Days Lost by District

	TOTAL ACCIDENTS					TIME LOSS ACCIDENTS					EMPLOYEE DAYS LOST				
	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999	1995	1996	1997	1998	1999
Strathcona	7	7	5	6	2	4	2	2	2	0	4	18	14	7	0
S. V. Island	9	3	0	3	3	5	0	0	1	0	40	0	0	1	0
Garibaldi-Sunshine	9	3	3	2	8	1	1	0	0	1	7	4	0	0	1
Lower Mainland	4	5	2	5	7	3	3	1	2	1	69	90	2	100	72
Thompson River	2	0	1	0	4	0	0	0	0	2	0	0	0	0	251
Okanagan	0	5	2	2	4	0	1	0	0	0	0	7	0	0	0
Kootenay	2	4	1	1	4	0	0	0	0	0	0	0	0	0	0
Skeena	1	4	0	0	1	0	1	0	0	0	0	4	0	0	0
Cariboo	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0
Prince George	0	2	0	0	2	0	0	0	0	1	0	0	0	0	9
Peace-Liard	0	2	0	1	0	0	1	0	0	0	0	2	0	0	0
Victoria HQ	2	1	2	3	0	0	0	0	1	0	0	0	0	1	0
TOTALS	38	39	18	24	**36**	13	9	3	6	**5**	120	125	16	109	**333**

Note: Thompson River District and Lower Mainland District both had single time loss accidents in 1999 that resulted in large days loss claims.

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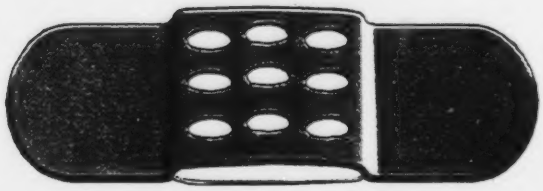
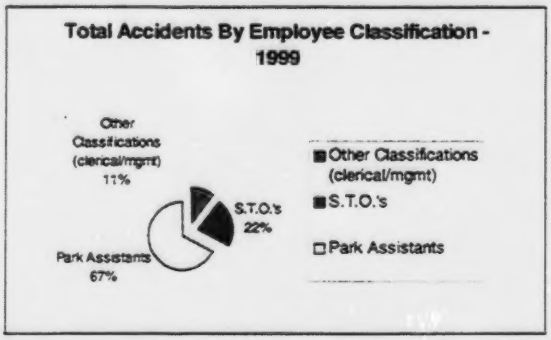
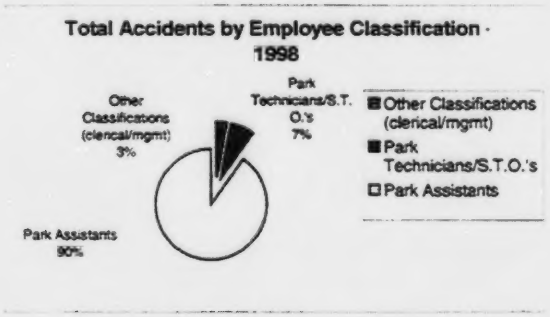
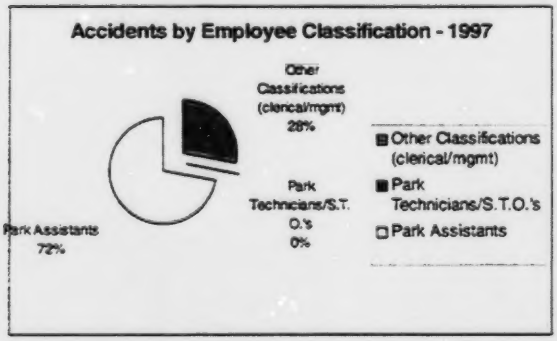
ACCIDENTS BY EMPLOYEE CLASSIFICATION

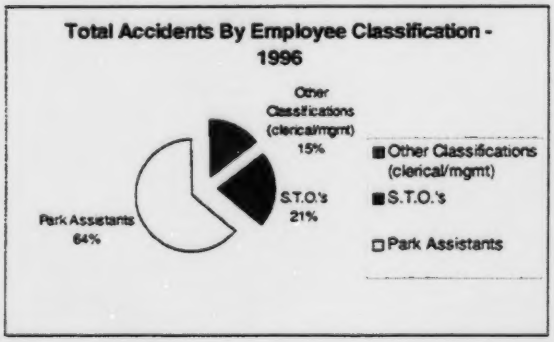


Year: 1999					
	Park Assistants	Park Technicians	S.T.O.'s	Other Classifications (Dist. Mgrs., clerical)	Total
Total Accident	67%		22.0%	11%	100%
Time Loss Accident	40%		40%	20%	100%
Employee Days Lost	3%		97%	0%	100%
1998	Park Assistants	Park Technicians	S.T.O.'s	Other Classifications (Dist. Mgrs., clerical)	Total
Total Accident	42%		33%	25%	100%
Time Loss Accident	17%		33%	50%	100%
Employee Days Lost	90%		7%	3%	100%
1997	Park Assistants	Park Technicians	S.T.O.'s	Other Classifications (Dist. Mgrs., clerical)	Total
Total Accident	66%		0%	28%	100%
Time Loss Accident	67%		0%	33%	100%
Employee Days Lost	90%		0%	10%	100%
1996		Park Technicians	S.T.O.'s	Other Classifications (Dist. Mgrs., clerical)	Total
Total Accident	64%		21%	15%	100%
Time Loss Accident	89%		0%	11%	100%
Employee Days Lost	90%		0%	10%	100%


Total Accidents By Employee Classification - 1999
Other Classifications (clerical/mgmt) 11%
S.T.O.'s 22%
Park Assistants 67%
Other Classifications (clerical/mgmt)
S.T.O.'s
Park Assistants


Total Accidents by Employee Classification - 1998
Other Classifications (clerical/mgmt) 3%
Park Technicians/S.T.O.'s 7%
Park Assistants 90%
Other Classifications (clerical/mgmt)
Park Technicians/S.T.O.'s
Park Assistants


Accidents by Employee Classification - 1997
Other Classifications (clerical/mgmt) 28%
Park Technicians/S.T.O.'s 0%
Park Assistants 72%
Other Classifications (clerical/mgmt)
Park Technicians/S.T.O.'s
Park Assistants


Total Accidents By Employee Classification - 1996
Other Classifications (clerical/mgmt) 15%
S.T.O.'s 21%
Park Assistants 64%
Other Classifications (clerical/mgmt)
S.T.O.'s
Park Assistants

ACCIDENTS BY AREA OF INJURY

TABLE 3 ACCIDENTS BY AREA OF INJURY

AREA OF INJURY	TOTAL ACCIDENTS		TIME LOSS ACCIDENTS		EMPLOYEE DAYS LOST		EMPLOYEE DAYS LOST BY PERCENT	
	1998	1999	1998	1999	1998	1999	1998	1999
Head, Face or Neck	1	4	1	1	1	1	1%	.30%
Eyes	0	3	0	0	0	0	0%	0%
Torso, Chest or Stomach	0	2	0	0	0	0	0%	0%
Back	7	4	3	1	106	9	97%	2.7%
Arm, Wrist, Shoulder or Elbow	3	3	1	1	1	0	1%	0%
Hands or Fingers	2	8	1	1	1	0	1%	0%
Leg, Knee or Hip	7	7	0	1	0	323	0%	97%
Foot	2	4	0	0	0	0	0%	0%
Multiple	0	0	0	0	0	0	0%	0%
Other	2	1	0		0	0	0%	0%
TOTALS	24	36	6	5	109	333	100%	0%

Job	District	Length of	Date of	Circumstances of Incident
CR3	L.M. Dist	8 years	99.01.20	Worker was binding documents and developed sore shoulder
ST03	Cariboo Dist	2 years	99.01.22	Tripped on branch and landed on tree root sticking out of snow.
STO3	Prince George	11 years	99.01.22	Pain, swelling in left ankle. Employee slipped while entering Govt. Vehicle
ST03	L.M.Dist	19 years	99.02.10	Employee reported that knees sore after walking in snow
PA2	Garibaldi/Sunshine	1 month	99.03.16	Worker struck on head by helicopter long line hook
STO3	Thompson River	16 years	99.03.16	Worker driving snowmobile hit rut, overturned and damaged knees
ST02	S.V.I. Dist	19 years	99.05.05	Blisters to left and right hands. Pneumatic drill and jack hammer use
PA2	L.M. District	2 years	99.05.10	Worker dropped tire float on right knee, cut and swollen right knee.
PA2	S.V.I. District	2 years	99.05.15	Worker cut forearm while moving into shelters and equipment.
PA2	Skeena District	1 year	99.06.06	Cable used to haul boats out of water snapped striking staff in face.
PA2	Okanagan District	1 day	99.06.14	Employee punctured hand while moving nesting platform.
PA2	Okanagan Dist	3 months	99.06.14	Employee was rolling log, volunteer moved in the way log slipped.
PA2	Strathcona District	2 months	99.06.17	Workers eye scrapped by bush when working near pit toilets
PA2	Kootenay District	1 year	99.06.22	Worker strained wrist while placing barrels in overhead storage area.
ST05	Kootenay District	19 years	99.06.30	Worker involved in singled vehicle car accident.
PA2	L.M. District	4 months	99.07.09	Worker disturbed wasp nest resulting in 7 or 8 stings to body.
PA2	L.M. District	9 years	99.07.11	Worker injured knees when footbridge collapsed.
PA2	L.M. District	1 month	99.07.13	Worker was hiking when a branch entered his right ear.
PA2	Kootenay District	6 years	99.07.17	Employee struck his ankle on bolt protruding from a vault stored on floor
PA2	L.M. District	3 months	99.07.23	Employee strained upper back and right shoulder while lifting logs.
PA2	Garibaldi/Sunshine	2 months	99.07.25	Pain in wrist after using powers saw for three days. No time loss
PA2	Okanagan District	2 months	99.08.01	Worker received a bug bite or sting on eyelid.
PA2	Garibaldi/Sunshine	3 months	99.08.08	Employee opening car door when her hand slipped and struck log wall
PA2	Garibaldi/Sunshine	2 years	99.08.12	Rash on groin, unknown causes possibly not work related.
PA2	Garibaldi/Sunshine	2 months	99.08.14	Employee riding back from worksite when a piece of grit got into his eye
STO5	S.V.I. District	24 years	99.08.24	Employee slipped while walking on steep wet bank.
PA2	Strathcona District	1 month	99.08.28	Employee brushing trail cut finger on machete blade.
PA2	Thompson River	2 months	99.08.28	Employee picking up supplies sprained ankle.
PA2	Garibaldi/Sunshine	5 months	99.09.13	Employees leg become sore after hiking out of Garibaldi Lake Trail
PA2	Garibaldi/Sunshine	3 months	99.09.19	Employee slipped while walking down bank and wrenched shoulder
PA2	Prince George	17 years	99.10.17	Employee using a sledgehammer missed object and twisted back.
ST05	Thompson River	25 years	99.10.27	Employee was cleaning up storage area divider fell & struck employee
PA2	Garibaldi/Sunshine	1 year	99.10.28	Employee complained about pain in his heels caused by hiking.
CR3	Thompson River	?	99.11.04	Employee stepping into van knee and leg twisted causing injury.
STO4	Okanagan Dist	3 years	99.12.14	Employee hurt back while snowshoeing as shoes stuck in vegetation.
PA2	Garibaldi/Sunshine	1 day	99.12.20	Employee fell into open hatch, which had been left open in dark room.

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ACCIDENTS BY LENGTH OF EMPLOYMENT

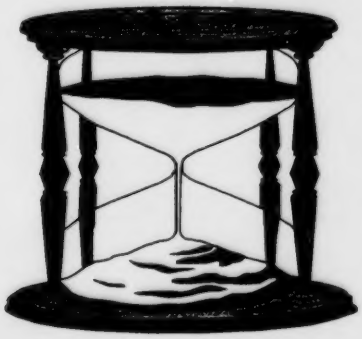
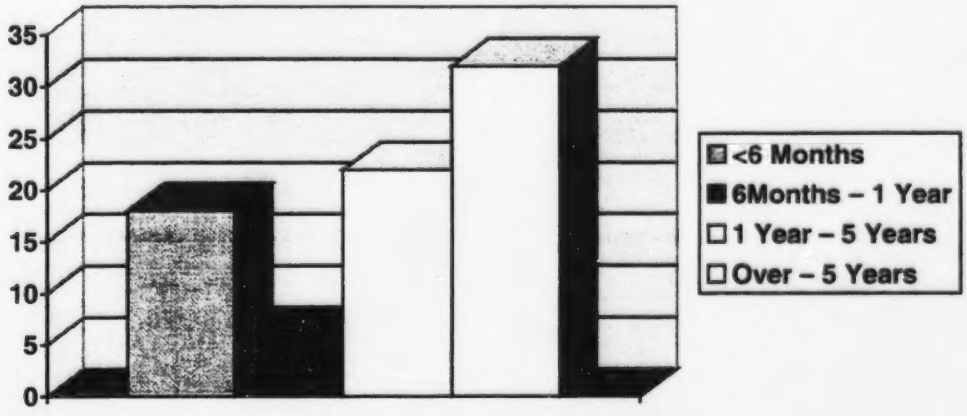


TABLE 4 ACCIDENTS BY LENGTH OF EMPLOYMENT

LENGTH OF EMPLOYMENT	TOTAL ACCIDENTS			TIME LOSS ACCIDENTS			EMPLOYEE DAYS LOST			TOTAL EMPLOYMENT DAYS LOST %		
	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
< 6 Months	5	0	13	0	0	1	0	0	1	0%	0%	.30%
6 Mos - 1 Yr	2	0	4	1	0	1	4	0	1	25%	0%	30%
1 Yr - 5 Yrs	4	11	7	2	1	0	12	0	0	75%	0%	0%
Over 5 Yrs	7	13	12	0	5	3	0	109	331	0%	100%	99.4%
TOTALS	18	24	36	3	6	5	16	109	333	100%	100%	100%

Total Accidents for past three years by length of employment:

<6 Months	18
6Months – 1 Year	6
1 Year – 5 Years	22
Over – 5 Years	32



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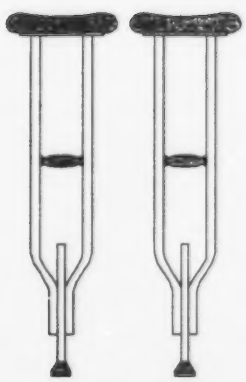
ACCIDENT SEVERITY RATE



The following charts show total accidents, total time loss accidents and total employee days lost over the past five years.

Table Five **TOTAL Accidents** (for the past five years)

District	1995	1996	1997	1998	1999	Total
Prince George	0	0	2	0	2	4
Thompson River	2	0	1	0	4	7
Peace Liard	0	2	0	1	0	3
Skeena	1	4	0	0	1	6
Victoria Hqts	2	1	2	3	0	8
Okanagan	0	5	2	2	4	13
Cariboo	2	3	2	1	1	9
Kootenay	2	4	1	1	4	12
Lower Mainland	4	5	2	5	7	23
South Vancouver Island	9	3	0	3	3	18
Garibaldi/Sunshine	9	3	3	2	8	25
Strathcona	7	7	5	6	2	27
Provincial Totals	38	39	18	24	36	155

Table Six: **Total TIME LOSS Accidents For The Past Five Years**

District	1995	1996	1997	1998	1999	Total
Prince George	0	0	0	0	1	1
Thompson River	0	0	0	0	2	2
Peace Liard	0	1	0	0	0	1
Victoria Hqts	0	0	0	1	0	1
Okanagan	0	1	0	0	0	1
Cariboo	0	0	0	0	0	0
Skeena	0	1	0	0	0	1
Garibaldi/Sunshine	1	1	0	0	1	3
Kootenay	0	0	0	0	0	0
South Vancouver Island	5	0	0	1	0	6
Lower Mainland	3	3	1	2	1	10
Strathcona	4	2	2	2	0	10
Provincial Totals	13	9	3	6	5	36

Table Seven: **Employee DAYS LOST For The Past Five Years**

District	1995	1996	1997	1998	1999	Total
Prince George	0	0	0	0	9	**9**
Skeena	0	4	0	0	7	**11**
Thompson River	0	0	0	0	251	**251**
Victoria Hqts	0	0	0	1	0	**1**
Peace Liard	0	2	0	0	0	**2**
Okanagan	0	7	0	0	1	**8**
Garibaldi/Sunshine	7	4	0	0	1	**12**
Cariboo	0	0	0	0	0	**0**
Strathcona	4	18	14	7	0	**43**
South Vancouver Island	40	0	0	1	0	**41**
Kootenay	0	0	0	0	0	**0**
Lower Mainland	69	90	2	100	72	**333**
BC Parks Totals By Year	120	125	16	109	333	**703**

The following table utilises a weighted average of hours worked. It provides a weighted average frequency rate for all accidents which occurred in 1999 and over the past five years. The weighted average is calculated by dividing the number of hours worked by the district with the greatest amount of hours (Lower Mainland District) by the hours worked by other Districts to arrive at a weighted average (i.e. in 1997 Lower Mainland District worked 61.718.62 hours by dividing the number of hours worked by Prince George District 35,334.18 a weighted average of 1.75 is obtained). This number 1.75 is then multiplied (x) the number of accidents for the year, and over the past five years. By calculating the scores on a weighted average it places all Districts on an equal scale.

Table Eight: Accident Frequency Rate (using weighted average hours worked) (and all accidents reported as shown on table five)

This table shows ranking by District based on Five Year Average

District	Five Year Average A.F.R.	1999 A.F.R.
Garibaldi/Sunshine	31.25	12
Strathcona	27.81	2.06
South Vancouver	26.82	4.47
Lower Mainland	23.00	7.0
Okanagan	19.89	6.12
Cariboo	15.39	1.71
Kootenay	14.04	4.68
Peace Liard	9.99	0
Thompson River	9.03	5.16
Prince George	3.50	7.0
Skeena	1.35	1.35

This table shows 1999 Accident Frequency Rate ranking by District

District	Five Year Average A.F.R.	1999 A.F.R.
Garibaldi/Sunshine	**31.25**	**12**
Lower Mainland	**23.00**	**7.0**
Prince George	**3.50**	**7.0**
Okanagan	**19.89**	**6.12**
Thompson River	**9.03**	**5.16**
Kootenay	**14.04**	**4.68**
South Vancouver	**26.82**	**4.47**
Strathcona	**27.81**	**2.06**
Cariboo	**15.39**	**1.71**
Skeena	**1.35**	**1.35**
Peace Liard	**9.99**	**0**

The districts which need to pay the greatest attention to evaluating possible safety concerns and opportunities to reduce their accident frequency rates are the districts with the highest five year average accident frequency rate, particularly if their most recent (1999) A.F.R., is also at or near the top compared to other